

SUPPLEMENTARY MATERIAL

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Post-extubation high-flow nasal cannula oxygen therapy *versus* non-invasive ventilation in chronic obstructive pulmonary disease with hypercapnic respiratory failure

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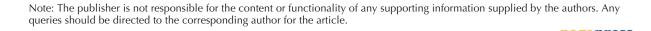
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Key words: chronic obstructive pulmonary disease, airway extubation, ventilator weaning, non-invasive ventilation.

Supplementary Table 1. Parameters of high-flow nasal cannula and non-invasive ventilation.

High-flow nasal cannula				
Mean temperature	35.8±2.17 degree Celsius			
Mean flow rate	43.66±11.36 L/min			
Mean FiO ₂	30.26±6.72			
Non-invasive ventilation mode				
Mean support	16.5±3.33 cmH ₂ 0			
Mean PEEP	7±0.87 cmH ₂ 0			
Mean FiO ₂	24.37±3.16			

Data are shown as means \pm standard deviation. PEEP, positive end-expiratory pressure; FiO₂, fraction of inspired oxygen.



Supplementary Table 2. Arterial blood gas analysis parameters.

Groups	pH	PaCO ₂	PaO ₂ /FiO ₂	
High-flow nasal cannula				
Baseline	7.42±0.03	47.73±6.68	249±74.82	
1 hour	7.41±0.03	49.4±6.19	254.53±83.58	
24 hours	7.40±0.04	50.33±8.17	262.6±93.86	
48 hours	7.40±0.04	49.53±7.23	274.8±83.46	
72 hours	7.39±0.05	49.20±9.11	279.6±84.53	
p-value	0.04	0.2	<0.05	
Non-invasive ventilation mode				
Baseline	7.41±0.03	47.19±5.01	264.38±47.85	
1 hour	7.40±0.02	49.06±3.62	266.44±49.94	
24 hours	7.40±0.02	49.38±4.53	276.62±57.96	
48 hours	7.39±0.04	54.88±4.73	283.12±55.55	
72 hours	7.39±0.05	51.31±0.12	289.62±52.29	
p-value	< 0.05	0.148	<0.05	

Data are shown as means ± standard deviation. Friedman repeated measures analysis of variance on ranks; PaCO₂, partial pressure of carbon dioxide; PaO₂, partial pressure of oxygen; FiO₂, fraction of inspired oxygen.

